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PATENT

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Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 16, 2005

William R Allen

William R. Allen, Reg. No. 48,389

16 September 2005

Date

Applicants:

Serial No. : **SEP 19 2005**

Filed:

Art Unit:

Examiner:

Confirmation No.:

Title:

Toshiharu Furukawa et al.

10/767,039

January 29, 2004

2814

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4826

VERTICAL FIELD EFFECT TRANSISTORS
INCORPORATING SEMICONDUCTING NANOTUBES
GROWN IN A SPACER-DEFINED PASSAGE

Atty Docket No.:

IBM-273

Cincinnati, Ohio 45202

September 16, 2005

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In accordance with the duty of candor and good faith imposed by 37 C.F.R. §1.56 and means of complying therewith according to 37 C.F.R. §§1.97 and 1.98, the references listed on the attached Form PTO-1449 are called to the attention of the United States Patent and Trademark Office in connection with the above-identified patent application.

Subject to the Office's waiver of providing copies of U.S. patents and published applications for applications filed after June 30, 2003, only foreign references and articles are provided, since this application was filed on January 29, 2004, and therefore, subsequent to June 30, 2003.

The Examiner is urged to consider all of the cited documents and to make an independent evaluation of the teachings and materiality of each.

Applicants also enclose a check in the amount of \$180.00 for this submission. If further fees are due, the Commissioner is authorized to charge deposit account 23-3000 for any required fees..

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

BY William R. Allen
William R. Allen
Reg. No. 48,389

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SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/273SERIAL NO.
10/767,039INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

SEP 19 2005

APPLICANT
Toshiharu Furukawa et al.FILING DATE
January 29, 2004GROUP
2814

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A.A	6	2	5	0	9	8	4	6/26/2001	Jin et al.	445	51	1/25/1999
	A.B	6	4	2	3	5	8	3	7/23/2002	Avouris et al.	438	132	1/3/2001
	A.C	6	5	1	5	3	2	5	2/4/2003	Farnworth et al.	257	296	3/6/2002
	A.D	6	8	5	8	8	9	1	2/22/2005	Farnworth et al.	257	296	12/9/2002
	A.E												
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FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

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	A.P						
	A.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	A.R	Furukawa et al., <u>United States Patent Application Publication No. US 2005/O179029</u> , Publication Date: August 18, 2005
	A.S	<u>Y.Zhao, et al, "Film growth of pillars of multi-walled carbon nanotubes", J.PHys.: Condens. Matter 15 (2003) L565-L569</u>
	A.T	<u>Zhang, et al, "Electric-field-directed growth of aligned single-walled carbon nanotubes", Applied Physics Letters, Volume 79, Number 19, 5 November 2001</u>

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered.
Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. IBM/273	SERIAL NO. 10/767,039		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT Toshiharu Furukawa et al.			
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	B.R	http://neep.nasa.gov/index_nasa.cfm/769/#synthesis , "Synthesis of CNT's"					
	B.S	C-H. Kiang, "Growth of Larger-Diameter Single-Walled Carbon Nanotubes", J.Phys. Chem. A 2000, 104, 2454-2456					
	B.T	E.Ploenjes, et al, "Single-Walled Carbon Nanotube Synthesis in CO Laser Pumped Monoxide Plasma". Oct 10, 2001					
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	C.R	<u>Y.Mo, et al, "The growth mechanism of carbon nanotubes from thermal cracking of acetylene over nickel catalyst supported on alumina." 2001 Elsevier Science B.V</u>					
	C.S	<u>M.Jung, et al, "Growth of carbon nanotubes by chemical vapor deposition," 2001 Elsevier Science B.V.</u>					
	C.T	<u>H.W.Zhu, et al, "Direct Synthesis of Long Single-Walled Carbon Nanotube Strands", 3 May 2002, Vol 296, Science</u>					
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	D.R	<u>H.Cui, et al, "Growth behavior of carbon nanotubes on multilayered metal catalyst film on chemical vapor deposition". Chemical Physics Letters 374 (2003) 222-228</u>					
	D.S	<u>J.Li, et al, AHighly-ordered carbon nanotube arrays for electronics applications". Applied Physics Letters, Vol 75, Number 3, 19 July 1999, pp. 367-369</u>					
	D.T	Furukawa et al., <u>United States Patent Application No. US2005/O130341</u> , Publication Date: June 16, 2005					
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	E.R	Phillip G. Collins, et al., "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown," Science, Vol. 292, pp.706-709, 27 April 2001					
	E.S	V. Derycke, et al., "Carbon Nanotube Inter- and Intra molecular Logic Gates," Nano Letters, xxxx Vol.0, No 0 A-D (Received August 16, 2001)					
	E.T	Phillip G. Collins, et al., "Nanotubes for Electronics," Scientific American, pp. 62-69, December 2000					
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	F.R	S.J. Wind et al., <u>"Vertical Scaling of Carbon Nanotube Field-Effect Transistors Using Top Gate Electrodes"</u> , Applied Physics Letters, Vol. 80, Number 20, May 20, 2002, pp. 3817-3819					
	F.S	Z.F. Ren, <u>"Growth, Characterization, and Potential Applications of Periodic Carbon Nanotube Arrays"</u> , Dept of Physics, Boston College. Updated, 2001					
	F.T	Jun Li, et al, <u>"Bottom-up approach for carbon nanotube interconnects"</u> , NASA Ames Research Center, Moffett Field, CA. Rec'd 5. December 2002, accepted 31 January 2003					
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	G.R	<u>Anyuan Cao, et al, "Grapevine-like growth of single walled carbon nanotubes among vertically aligned multiwalled nanotube arrays", Applied Physics Letters, Volume 79, Number 9, 27 August 2001, pp. 1252-1254</u>					
	G.S	<u>Battelle No 12132, "Carbon Nanotube Arrays: Synthesis of Dense Arrays of Well-Aligned Carbon Nanotubes Completely Filled with Titanium Carbide on Titanium Substrates"</u>					
	G.T	<u>Aileen Chang, et al, "Integration of Nanotubes into Devices", National Nanofabrication Users Network, page 58, Stanford Nanofabrication Facility, p. 58</u>					
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	H.R	<u>Z.Huang, et al.</u> "Growth of highly oriented carbon nanotubes by plasma-enhanced hot filament chemical vapor deposition". <u>Applied Physics Letters</u> , Vol 73, Number 26, 28 December 1998, pp. 3845-3847					
	H.S	Furukawa et al., <u>United States Patent Application Publication No. US 2005/O167655</u> , Publication Date: August 4, 2005					
	H.T	<u>Z.F.Ren, et al.</u> , "Synthesis of Large Arrays of Well-Aligned Carbon Nanotubes on Glass", <u>Science</u> , Vol 282, 6 November 1998, 1105-1107					
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	I.R	<u>Z.F.Ren, "Large Arrays of Well-Aligned Carbon Nanotubes", Proceedings of 13th International Winter School on Electronic Properties of Novel Materials, Page 263-267, Feb. 27 - Mar. 6, 1999, Kirchberg / Tirol, Austria</u>					
	I.S	<u>Won Bong Choi, et al, "Ultrahigh density nanotransistors by using selectively grown vertical carbon nanotubes", Applied Physics Letters, Volume 79, Number 22, 26 November 2001</u>					
	I.T	<u>Bo Zheng, et al, "Efficient CVD Growth of Single-Walled Carbon Nanotubes on Surfaces Using Carbon Monoxide Precursor", Nano Letters, xxxx Vol.0, No 0 A-D. American Chemical Society revised June 26, 2002</u>					
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	J.R	<u>Gorman, "Nanoscale Networks: Supertong nanotubes can form a grid". Science News Online, May 3, 2003; Vol 163, No 18</u>					
	J.S	<u>"Tiny nanotubes set new record", 7 August 2003. Nanotechweb.org</u>					
	J.T	<u>"IBM Scientists Develop Carbon Nanotube Transistor Technology," IBM.com News - news report concerning work published in Science, Vol. 292, Issue 5517, April 27, 2001 entitled "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown," by Phaeton Avouris et al.</u>					
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	K.R	Ploenjes et al., <u>Synthesis of single-walled carbon nanotubes in vibrationally non-equilibrium carbon monoxide</u> , Chemical Physics Letters 352 (2002) pp. 342-247					
	K.S	Furukawa et al., <u>United States Patent Application Publication No. US 2005/O129948</u> , Publication Date: June 16, 2005					
	K.T	Farnworth et al., <u>United States Patent Application No. 2003/O168683</u> , Publication Date: 9/11/2003					
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	L.R	Choi et al., <u>United States Patent Application No. 2003/O170930</u> , Publication Date: 9/11/2003					
	L.S	Appenzeller et al., <u>United States Patent Application No. 2003/O178617</u> , Publication Date: 9/25/2003					
	L.T	<u>P.Harris, "Carbon Nanotubes and related structures", Cambridge University Press 1999.</u>					
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	M.R	K.Teo, et al, "Catalytic Synthesis of Carbon Nanotubes and Nanofibers", Encyclopedia of Nanoscience and Nanotechnology, Vol X, pps 1-22, 2003					
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EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance <u>and</u> not considered. Include a copy of this form with next communication to applicant.							